

Purchase Order Receipt Listing

Friday, March 10, 2017 2:30:13 PM

All Vendors PO ID PO35350 Receipt Dates from 3/10/2017 to 3/10/2017 All Line Item Types
 All Item ID/GL/WOs All Rec. Employees All Currencies
 Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID Req	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
PO35350	5	VU-TWM001	TW Metals 71475-45 REPLACEMENT MATL, M6061T6T0.3125W.0 58 m136943	Each	3/10/2017 48.0000	3/10/2017 PLOU01	48.0000	0.0000	0.0000	0	\$0.00

Total Received Quantity: 48.0000
 Total Qty to Inspect (PO U/M): 0.0000
 Total Reject Quantity: 0.0000
 Total Receipt Value: 0.0000
 Total Balance Due Quantity: 0.0000

All amounts are calculated in domestic currency.



O'Neal High-Performance Metals Group



Packing
Slip

ORDER NO.: 60627143 FROM: CRAN PAGE 1

CUST NUMBER: 1203820 NET WGT: 2.621 REQ. DATE: 03/10/17 CONFIRMED
 SOLD TO:
 DART AEROSPACE LTD
 1270 ABERDEEN ST
 HAWKESBURY ON
 CANADA CN K6A 1K7
 SHIP TO:
 DART AEROSPACE LTD
 1270 ABERDEEN ST
 HAWKESBURY ON
 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 03/08/17
 TERMS: NET 30 DAYS VIA: FED-EX GROUND
 F.O.B.: SHIPPING POINT FREIGHT: PREPAID
 CUST ORD NO.: 35350 REPLACE RELEASE NO.:
 RECEIVING PHONE:

LINE	ITEM DESCRIPTION	WIDTH	LENGTH
0001	41723 D6061-T6 5/16 OD X .058 WA	12 FT	ML

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT
	48.000 FT	48.000 FT	48.000 FT	2.621

PCS
8

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00
 PO: 49354489 HT: 388604 PC: 8 CUSTOMER QTY: 48.000 UOM FT
 MLT: UNITED STATES MFG: UNITED STATES SLB/CL: 422327

BROKERS KUEHNE AND NAGEL LTD
 OK TO CUT IN HALF FOR SHIPPING

SP17-e3-10

PACK INFO					
AREA	TYPE OF PKG	PKGS	GRS	WEIGHT	WIDTH
UPS	CARTON	1.000		8.000	6.5000
		1.000		8.000	

BY: KP
 RT 000- UNLOAD TYPE: NONE SPECIFIED

DATE SHIPPED _____

DATE FILLED _____

1
THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
 PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
 REVIEW.
<http://www.twmetals.com/invoice-terms.html>



METALS
O'Neal High-Performance Metals Group



Packing
Slip

ORDER NO.: 60627143 FROM: CRAN PAGE 2

CUST NUMBER: 1203820 NET WGT: 2.621 REQ. DATE: 03/10/17 CONFIRMED
SOLD TO:
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKSBURY ON
CANADA CN K6A 1K7
SHIP TO:
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKSBURY ON
ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 03/08/17
TERMS: NET 30 DAYS 27 ENGLEHARD DRIVE
F.O.B.: SHIPPING POINT MONROE TWP NJ 08831
CUST ORD NO.: 35350 REPLACE
VIA: FED-EX GROUND
FREIGHT: PREPAID
RELEASE NO.:
RECEIVING PHONE:

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Authorized Test Report Clerk Carrie L. Conner Date: 3/08/17

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
2425 STEVENS DRIVE
RICHLAND, WA 99352

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:			
PTC2249		SPIRIT-371850		5.400 LB/PC .500 LB/O LB 1.312 OD X .085 WALL ESRT			
KAISER ORDER NUMBER:	LINE ITEM:	SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:		
320031	001	04/01/2016	50751-323	6061	O		
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:		
16135.000 LB	2913.000 PCS	004991			13.984 FT		
SHIP TO:		SOLD TO: MUELLER INDUSTRIES, INC PRECISION TUBE 8285 TOURNAMENT DRIVE STE.150 MEMPHIS, TN 38125 USA					
PRECISION TUBE CO 287 WISSAHICKON AVENUE N. WALES, PA 19454 USA							



Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	%Elong in 2	HARDNESS	CONDUCT.	BEND
50751-323	0001	0002	17.3	5.9	26.7	NA N/A	N/A	N/A
50751-323	0001	0003	17.3	5.9	26.7	NA N/A	N/A	N/A
50751-323	0001	0004	17.3	5.4	27.2	NA N/A	N/A	N/A
50751-323	0001	0005	18.0	6.1	28.0	NA N/A	N/A	N/A
50751-323	0001	0006	17.4	5.7	26.4	NA N/A	N/A	N/A
50751-323	0001	0007	17.9	6.2	27.6	NA N/A	N/A	N/A
50751-323	0001	0008	17.5	5.8	26.6	NA N/A	N/A	N/A
50751-323	0001	0009	17.7	5.7	28.6	NA N/A	N/A	N/A
50751-323	0001	0010	16.9	5.6	25.2	NA N/A	N/A	N/A
50751-323	0001	0011	17.6	5.8	27.9	NA N/A	N/A	N/A
50751-323	0001	0012	17.8	6.9	27.4	NA N/A	N/A	N/A
50751-323	0001	0013	18.1	6.1	27.2	NA N/A	N/A	N/A
50751-323	0001	0014	17.4	5.7	28.3	NA N/A	N/A	N/A
50751-323	0001	0015	17.0	5.6	28.6	NA N/A	N/A	N/A
50751-323	0001	0016	18.2	5.8	26.6	NA N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	.0
F75366	.58	.29	.22	.06	.98	.08	.05	.02	.00	.00	.00	.01	.02

Applicable Requirements:

ASTM-B241-12 NON-STENCILED ASTM-B221-13 ASTM-B345-11 AMS-QQ-A-200/8 97(R07) TYPE I
UNS#A96061 Also conforms to EN 10204 3.1

TEST REPORTS
ACCEPTED BY

49354489
AUG 09 2016

J.B.
TW METALS

Page 1 of 2

Plant Serial: 00013829
Kaiser Order Number: 320031
Line Item: 001

KAISER
ALUMINUM
FABRICATED PRODUCTS

*Best in
Class*

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
2425 STEVENS DRIVE
RICHLAND, WA 99352

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

JOSEPH AMES, QUALITY MANAGER

fph

**TEST REPORTS
ACCEPTED BY**

AUG 09 2016

Lob
TW METALS

Plant Serial: 00013829

Kaiser Order Number: 320031

Line Item: 001



PRECISION TUBE CO.
287 WISSAHICKON AVE.
NORTH WALES PA 19454

Control No: 1604

A COMPANY OF MUELLER INDUSTRIES

CERTIFIED TEST REPORT

CUSTOMER PURCHASE ORDER NO.	CUST. ORD. NO.	PRECISION TUBE P/N	
49354489 LINE 001	422327	24A031250580005	
SOLD: TW METALS TO 175 TUBEWAY FOREST PARK, GA 30298 UNITED STATES		SHIP: TW METALS TO 175 TUBEWAY FOREST PARK, GA 30298 UNITED STATES	
QUANTITY ORD.		QTY. SHIPPED	
1824 FT	METAL - 6061 ALUM TEMPER - T6 SPEC - AMS 4082P ASTM-B-210-12 AMS-WW-T-700/6C LENGTH - 12 FT LGTH TOL +.1250 IN -.0000 IN SHAPE - ROUND FINISH - STRAIGHT EXACT LENGTHS OD .3125 +.0030 -.0030 ID WALL .0580 +.0040 -.0040	2004 FT	08/05/16

MECHANICAL PROPERTIES

SAMPLE #	TENSILE STRENGTH (P.S.I.)	YIELD STRENGTH (P.S.I.)	ELONGATION IN 2 INCHES (%)	ROCKWELL HARDNESS	AVERAGE GRAIN SIZE (MM.)
1	45,775	40,439	17		

TEST REPORTS

ACCEPTED BY

49354489
AUG 09 2016

TW METALS

Comments: FAR BAA COMPLIES, DFARS BAA COMPLIES, FAR TAA COMPLIES

NON-DESTRUCTIVE TESTS

EDDY CURRENT: PASS

CHEMICAL COMPOSITION

ALLOY:	HEAT:	TRACEABILITY #:							
		388604 RAW MATL VENDOR: FTC2249 - Kaiser Aluminum							
Min		Si	Fe	Cu	Mn	Mg	Cr	Zn	Tl Al
Max		0.40		0.15		0.80	0.04		Rem.
OTHER ELEMENTS: 0.05 MAX EACH / 0.15 MAX TOTAL									

We hereby certify that the material has been manufactured and tested in accordance with the requirements of the applicable specifications and descriptions set forth on Precision Tube's sales acknowledgement. During the manufacturing, testing and inspection, the product did not come into direct contact with mercury or any of its compounds, nor with any mercury containing device employing a single boundary containment. Test results indicate that the material is compliant with the current revision of the RoHS Directive (2011/65/EU).

Melted and Manufactured in USA
QMS Registered to ISO 9001: 2008

By:
Art Onaitis
QA Manager

08/05/16
Page: 1 of 1

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M6061T6 T0.3125 W.058 PO / BATCH NO 35350 / B6943
 DATE 017/03/18

MATERIAL CERT REC'D	<u>YES</u>	THICKNESS ORDERED	<u>.058</u>
QUANTITY RECEIVED	<u>48</u>	THICKNESS RECEIVED	<u>.055</u>
QUANTITY INSPECTED	<u>48</u>	SHEET SIZE ORDERED	
QUANTITY REJECTED		SHEET SIZE RECEIVED	

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	<u>M6061T6</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/>	<u>.055</u>
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	<u>ASTM B210</u>
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	<u>HEATH 388104</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	<u>M6061T6 T0.3125 W.058</u>
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	<u>B6943</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>14</u> <u>9.69</u>	SIGNED OFF BY: _____
DATE: <u>17/03/18</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35350**

Purchase Order Date 2/17/2017

PO Print Date 3/10/2017

Page Number 1 of 3

Order From : VU-TWM001

TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

replacement mat'l.

Contact Name
Vendor Phone 585 768 5600

Ship To Contact
Ship To Phone
Ship Via: YRC COLLECT
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency USD
FOB FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M304TR0.500W.035	304 RD Tube .500 x .035W	2/27/2017 Yes 2/27/2017	20.00 f		\$1.50	\$30.00
		MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING AS PER ASTM A213 OR AMSE SA213 OR ASTM A269				Line Total:	\$30.00

2	M304TR0.750W.049	304 RD Tube .750 x .049W	2/27/2017 Yes 2/27/2017	60.00 f		\$2.10	\$126.00
---	------------------	--------------------------	-------------------------------	------------	--	--------	----------

MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING
AS PER ASTM A213 OR AMSE SA213 OR ASTM A269

Line Total: \$126.00

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35350**

Purchase Order Date 2/17/2017
PO Print Date 3/10/2017

Page Number 2 of 3

Order From : VU-TWM001

TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 585 768 5600

Ship To Contact
Ship To Phone
Ship Via: YRC COLLECT
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency USD
FOB FCA - (Free Carrier)

3	M6061T6T0.3125W.058	ALUM TUBE .3125 x .058w	2/27/2017	40.00	\$2.50	\$100.00
---	---------------------	-------------------------	-----------	-------	--------	----------

Yes f
2/27/2017

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING
AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR
AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR
ASTM B241

				Line Total:	\$100.00
--	--	--	--	--------------------	-----------------

4	71401-45	PROCUREMENT QUALITY CLAUSES	2/27/2017	1.00	\$0.00	\$0.00
---	----------	--------------------------------	-----------	------	--------	--------

No
2/27/2017

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

Line Total:	\$0.00
--------------------	---------------

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35350**

Purchase Order Date 2/17/2017

PO Print Date 3/10/2017

Page Number 3 of 3

Order From : VU-TWM001

TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 585 768 5600

Buyer Chantal Lavoie

Ship To Contact
Ship To Phone
Ship Via: YRC COLLECT
Ship Acct:

Customer POID

10127-2607

Customer Tax #

Net 30

Terms

USD

Currency

FCA - (Free Carrier)

5	71475-45	REPLACEMENT MATL, M6061T6T0.3125W.058	3/10/2017	48.00	\$0.00	\$0.00
---	----------	--	-----------	-------	--------	--------

Yes Each

REPLACEMENT MATERIAL, WRONG MATL SENT (.049"
WALL)
USE SAME BATCH # M136943

Line Total: \$0.00

PO Total: \$256.00

SP11-03-10

cL

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dart aerospace.com for further explanation.

Change Nbr: 3

Change Date: 3/10/2017